METHOD AND APPARATUS OF ACQUIRING LARGE FOVIMAGES WITHOUT SLAB-BOUNDARY ARTIFACTS

Abstract of Disclosure

A system and method are disclosed using incremental table motion and partial data acquisition for increased volume coverage to reconstruct MR images across a large FOV without significant slab-boundary artifacts. At each table position, full zencoding data are acquired for a subset of the k without a number of positions over the desired FOV and MR data are acquired over the plurality of table increments. Since full zenata are acquired for each slab, the data can be Fourier transformed in z, sorted, and then aligned to match anatomic zenconstruct the final image that is free of slab-boundary artifacts.

Figures